Data Sheet

ESPRIMO™ C Series
The ultra small
professional PC

Economy

Sophisticated technologies for best in class economy.

Reduce cost of your professional PC by lowest energy consumption! Software and BIOS power management solutions reduce the overall average power consumption.

Further Total Cost of Ownership reductions are achieved through a comprehensive set of manageability features, sophisticated security solutions and a service friendly cabinet design.

For highest economy, ESPRIMO professional PCs are designed to increase your productivity and to decrease your cost.

Reliability
- Complete system development and manufacturing by Fujitsu Siemens Computers guarantees highest quality
- Platform stability and product continuity with managed lifecycle up to 18 month and chipset diversity

Environment
- Build with specially selected materials, the ESPRIMO Green PC brings economy and ecology in harmony
- From development to production, from transport to recycling –minimize the impact on the environment and limit the use of unrecoverable resources.

Ergonomics
- Sophisticated hardware design with optimized fans and air flow provides most silent system for an efficient working environment
- Best usability and complete quality – service friendly cabinet and easy access to all components

Customizing
- Tailor-made products to meet customer individual requirements
- Freedom of choice with systems which perfectly fit to specific customer

Manageability
- Reduce Total Cost of Ownership with a comprehensive set of system management features
- Easy and remote administration with DeskView client management

Security
- Access and data protection with sophisticated hardware and software components for secure systems
- Protect property – secure hardware and data and limit access with SmartCard Reader

Windows Vista Business

Supports intel Core 2 Duo inside

new design with new platform

	C5910	C5720
Mainboard		
Chipset	iQ963	iQ33
Mainboard Number	D2364	D2764
Mainboard form factor	prorietary	proprietary
Processor socket	LGA 775	LGA 775
Front side bus resp. system bus support	533/800/1066MHz	800/1066/1333 MHz
BIOS version	Phoenix Vers. 6.0	Phoenix Vers. 6.0
Flash EPROM BIOS update by software	x	x
Recovery BIOS	x	x
Processor		
Intel® Core™2 Duo E6xxx	up to E6700	up to E6850
Second level cache	2MB/4MB	4MB
Front side bus (FSB)	1066MHz	1333MHz
Intel® Core™2 Duo E4xxx	up to E4600	up to E4600
Second level cache	2MB	2MB
Front side bus (FSB)	800MHz	800MHz
Intel® Pentium™ Dual core E2xxx	up to E2160	up to E2160
Second level cache	1MB	1MB
Front side bus (FSB)	800MHz	800MHz
Intel® Celeron	up to 440	up to 440
Second level cache	512 KB	512 KB
Front side bus (FSB)	533 MHz	800 MHz
AMD Athlon™ 64 X2 (socket)	-	-
Second level cache	-	-
System Bus support	-	-
AMD Athlon™ 64 (socket)	-	-
Second level cache	-	-
System Bus support	-	-
AMD Sempron™ (socket)	-	-
Second level cache	-	-
System Bus support	-	-
AMD Athlon™ X2 (socket) Energy efficient	-	-
Second level cache	-	-
System Bus support	-	-
Memory		
Memory support	533/667MHz	667/800 MHz
DIMM slots	4	4
dual channel support	x	x
Max. capacity DDR2 SDRAM	8GB	8GB
for dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same		
Interfaces		
Mouse/keyboard (PS2)	x/x	x / x
Serial (9pi, 16 byte FIFO, 16550 compatible)	x	x
Second serial port	x	x
Parallel (25pin with EPP and ECP)	-	optional
Display (15 pin, VGA)	x	x
DVI	optional	optional
Micro (mono) rear	-	-
Line in (stereo) rear	x	x
Line out (stereo) rear	x	x
Micro (mono) front	x	x
Headphone in front	x	x
LAN RJ45	x	x
Universal Serial Bus (USB 2.0) in total	10	10
therefore USB rear	6	6
USB front	3	3
USB internal	1	1
Interfaces add on cards/components		
Dual port RS232 , serial	optional	optional
eSATA cable	-	optional
Parallel cable (25pin with EPP and ECP)	-	optional
Multicardreader	-	-
Input device/components		
USB wheel mouse	x	-
Optical USB Tilt wheel mouse	-	x
Optical USB/PS2 Tilt wheel mouse	optional	optional
LAN on board		
10/100/1000 MBit/s	Broadcom BCM5755	Broadcom BCM5754
Wake up on LAN (WOL)	x	x
PXE	x	x
BootP	tested	tested
LAN add on cards		
Gigabit Ethernet, SysKonnect	optional	optional
Audio on board		
Internal speaker supports audio playback	x	x
High definition audio	Realtek ALC 260	Realtek ALC 262
I/O controller onboard		
Fast IDE/Ultra DMA-100 bus master capability	x (only for slim ODD)	-
Serial ATA / thereof eSATA	2 / 0	3 / 1
Serial ATA II / 3GBit	x/x	x/x
Raid 1/0	-	-
Drive bays	2	2
internal 3,5"	1	1
external 3,5"	-	-

	C5910	C5720
external 5,25"	1 slim	1 slim
Floppy disk drive 1.44 MB standard	-	-
Hard disk drives		
Serial ATA II 80 / 160 / 250 / 500 GB	x/x/x/-	x/x/x/ Jan08
supporting NCQ and 3GBit (if chipset support is available)		
Optical drives (SATA)		
16/48-speed DVD ROM	-	-
DVD SuperMulti writer double layer support	optional	optional
Slots	**optional**	
PCI	1 (174 mm) optional via Riser	1 (174 mm) optional via Riser
PCI Express x16	-	-
PCI Express x1	-	-
Graphic on board	Intel® GMA 3000	Intel® GMA 3100
Shared memory depending on driver	up to 256MB	up to 256MB
3D SW interface	DirectX 9	DirectX 9
Resolution (color depth up to 32 Bit/pixel)		
1024 x 768 (recommended / max*)	85 / 120 Hz	85 / 120 Hz
1280 x 1024 (recommended / max*)	85 / 120 Hz	85 / 120 Hz
1600 x 1200 (recommended / max*)	85 / 100 Hz	85 / 100 Hz
1440 x 900 widescreen TFT (VGA / DVI)	x / x	x / x
1680 x 1050 widescreen TFT (VGA / DVI)	x / x	x / x
1920 x 1200 widescreen TFT (VGA / DVI)	x / x	x / x
* refresh rates reflect the max. graphics capabilities. Video quality can be deteriorated when using maximum settings. For TFT we recommend to use 60Hz.		
Graphic add on cards		
NVIDIA GeForce FX 7300LE 128MB, LP (DirectX 9)	-	-
NVIDIA GeForce FX 7300LE 256MB, LP (DirectX 9)	-	-
NVIDIA GeForce FX 7300LE 128MB (DirectX 9)	-	-
NVIDIA GeForce FX 7300LE 256MB (DirectX 9)	-	-
DVI adapter incl. Dual Monitoring (DVI/VGA)	optional via Riser	optional via Riser
Dual-DVI adapter incl. Dual Monitoring (DVI/DVI)	-	-
Electrical values		
Rated voltage range, AC	100 - 240 V	100 - 240 V
Rated frequency range	50-60 Hz	50-60 Hz
Operating voltage range, AC	90 - 264 V	90 - 264 V
Operating line frequency range	47 - 63 Hz	47 - 63 Hz
Max. output of power supply	240 W	240 W
PFC (power factor correction)	active	active
Monitor outlet	-	-
Power consumption for standard configuration (W) / CPU (1GB memory, HD, ODD, FDD, Operating system)	E6400	Celeron430; E6850
Maximum (S0, running app. CD in use)	96W	66W / 92W
Average (S0, running OS, Idle mode)	63W	53W / 55W
Stand by (S3, energy saving modus, WOL enabled)	2,2W	1,9 W
Minimum (ACPI status S5, soft off, **WOL enabled**)	1,5W	1,8 W
Heat dissipation (kJ/h / BTU/h) / CPU	E6400	E6850
Maximum (S0, running app. CD in use)	346kJ/h / 328 BTU/h	331 kJ/h / 314 BTU/h
Average (S0, running OS, Idle mode)	227kJ/h / 215 BTU/h	198 kJ/h / 188 BTU/h
Stand by (S3, energy saving modus, WOL enabled)	7,9 kJ/h / 7,5 BTU/h	6,8 kJ/h / 6,5 BTU/h
Minimum (ACPI status S5, soft off, **WOL enabled**)	5,4 kJ/h / 5,1 BTU/h	6,5 kJ/h / 6,1 BTU/h
1W = 3,6kJ/h, 1W = 3,4121BTU/h		
Noise for standard configuration (HDD, ODD, FDD)	E6400	Celeron430; E6850
A weighted sound **power level Lwad** (in B) / Workplace related A-weighted sound **pressure level LpAm** (in dB(A)), (bystander position) (ISO9296)		
Operation mode 1: ODD load (Blue angel requirement)	-	4,7B / 32dB ; 4,7 / 33dB
Operation mode 2: HDD load (Blue angel requirement)	-	3,6B / 21dB ; 3,6 / 21dB
Operation mode 3: CPU 90% load (Blue angel requirement)	-	3,6B / 21dB ; 4,0 / 25dB
Operation mode 4: High load	3,8B / 24dB	3,7B / 21dB ; 4,0 / 25dB
Operation mode 5: Office applications	3,9B / 23dB	3,7B / 21dB ; 3,7 / 21dB
Idle mode (Blue angel requirement)	3,4B / 19dB	3,5B / 19dB ; 3,5B / 21dB
Ambient temperature (IEC 721)	15°C'- 35°C	15°C'- 35°C
Dimensions	93 x 292 x 325 mm	93 x 292 x 325 mm
Operating position (vertical/horizontal)	x / x (feet included)	x / x (feet included)
Weight (depending on config)	approx. 7 kg	approx. 7 kg
Approvals and standards		
CE certification	x	x
according to EU Directives 89/336/EEC (EMC) and 06/95/EC (Product safety)		
Ergonomics	x	x
ISO9241 (GS mark)		
Product safety	x	x
IEC60950, EN60950, UL 60950, CSA22.2, UL 60950, CSA22.2, No.60950		
Electromagn. compatibility	x	x
EN55022/B, FCC class B, EN55024, EN61000-3-2/3		
Environmental compatibility		
RoHS (Restriction of hazardous substances)	x	x
WEEE (Waste electrical and electronical equipment)	x	x
Energy Star	-	-
Blue Angel 2007	-	-
Nordic Swan	-	-
Med certification according to EN60950 and EN60601-1-	x	x
Software (compatibility / preinstalled)		

	C5910	C5720
Microsoft Windows 2000	x / -	for projects
Microsoft Windows XP Home	x / -	x / -
Microsoft Windows XP Professional	x / optional	x / opt (TwinLoad)
Microsoft Windows XP Professional x64 Edition	x / -	x / -
Microsoft Windows Vista® 32bit	x / optional	x / optional
Microsoft Windows Vista® 64bit	x / optional	x / optional
Microsoft Windows Vista® Basic Logo (min. 512MB RAM necessary)	x	x
Microsoft Windows Vista® Premium Logo (min. 1GB RAM and Dual Channel memory necessary)	x	x
Linux certified	-	-
Additional Software		
Recovery DVD (Microsoft Windows XP / Vista)	x / optional	optional
Drivers and Utility DVD (DUDVD) (Microsoft Windows XP / Vista)	x / optional	optional
XONTROL (noise reduction for optical drives)	x	x
SafeStandby (only Windows XP)	x	-
Others		
Thermal Management	x	x
Keyboard on (Fujitsu Siemens Computers keyboard required)	x	x
Spare part availability	5 years	5 years
Compatibility (references)		
Microsoft Operating Systems (HCT / HCL entry)	x	x
PC 2001, DMI 2.0, WMI 1.5, USB 2.0	x	x
Manageability		
ASF 2.0 (Alert Standard Format)	-	x
iAMT Intel Active Manageability Technology (not activated, not provisioned, for Win XP Prof and Vista Business only)	-	-
DeskView 10.x client management including:		
On/Offline remote client management	x	x
Detailed system inventory management and reports	x	x
BIOS Management	x	x
Remote power management	x	x
System notifications	x	x
Advanced alerts (ASF implementation)	x	x
Security Remote Control	x	x
DeskView Helpdesk Integration	x	x
DeskUpdate Driver management	x	x
DeskView Migrate	optional	optional
DeskView Control	optional	optional
PXE 2.1 Boot code	x	x
BootP Boot Code including Bootmanage Administrator Software	tested	tested
Wake up from S5 (off mode)	x	x
Intrusion switch	optional	optional
Security		
Physical Security implemented in the cabinet		
Prepared for Kensington lock, eye for padlock	x	x
Integrated cabinet lock	optional	optional
System Security		
Boot sector virus protection	x	x
Write protect option for the Flash EPROM	x	x
Embedded security (TPM1.2)	x	x
Control of all USB interfaces / external USB interfaces detachable separately	x / x	x / x
Boot protection for floppy disk/CD drive and write protection for floppy disk drive	x	x
Control of external interfaces	x	x
User Security		
User and supervisor BIOS password	x	x
SystemLock 2 BIOS SmartCard Security	x	x
Hard disk password	x	x
Access protection via external SmartCard reader	optional	optional
Access protection via internal SmartCard reader	optional	optional
Serviceability		
FlexySlot	x	x
EasyFix	x	x
EasyChange (for HDD / for optical drives)	x / -	x / -
EasyPull	x	x
Packaging information		
Dimension outside (H x W x D) in mm	398x300x520	398x300x520
Max. quantity/ pallet	32	32
Material/ weight in g		
Carton	880g	880g
EPS / PS	250g	250g
PE	appr. 60g	appr. 60g
printed user documentation is bleached in chlorine free process		

Recycling information/ End of life service information
product is designed for easy recyclability
information about take back and recycling can be found here
http://www.fujitsu-siemens.com/recycling
information about environmental initiatives, policies, programs and goals can be found here
http://www.fujitsu-siemens.com/aboutus
Product material information
for all restricted substances see the Environmental guideline FSC03230
The data reflects laboratory performance only. The customer configuration may perform differently, depending on the software, components and peripherals connected.